

We reexamine a neutrino-driven  $r$ -process mechanism in the He shell of a core-collapse supernova with low initial metallicity. We use the hydrodynamic code KEPLER to calculate the nucleosynthesis both before and after the passage of shock, in recent pre-supernova models. We find that for an inverted neutrino mass hierarchy,  $A \sim 130$  and 195 abundance peaks can be produced over  $\sim 50\text{--}60$  s for initial metallicities  $\leq 10^{-3}$  the solar value. The mechanism is sensitive to the neutrino emission model and oscillations. We discuss the implications of this early  $r$ -process which could alter interpretations of abundance data from metal-poor stars.